

```

let S = \x y z.x z (y z)
let K = \x y.x
S K K

```

```

<whitespace>
→ " " <whitespace_opt>
→ " "

```

```

<line_end>
→ <whitespace_opt> ("\n" | "\0")
→ ("\n" | "\0")

```

```

<variable>
→ <letter> <variable_opt>
→ <letter>
→ ("S" | "K" | "x" | "y" | "z")

```

```

<variables>
→ <variable> <variables_opt>
→ <variable> <whitespace> <variable> <variables_opt>
→ <variable> <whitespace> <variable> <whitespace> <variable> <variables_opt>
→ <variable> <whitespace> <variable> <whitespace> <variable>
→ "x y z"

```

```

<expression>
→ <expression_opt> <line_end>
→ <definition> <line_end>
→ <declaration> <whitespace> "=" <whitespace> <term> <line_end>
→ "let" <whitespace> <variable> <whitespace> "=" <whitespace> <term>
<line_end>
→ "let S = " <term> "\n"
→ "let S = " <abstraction> "\n"
→ "let S = \" <variables> "." <term> "\n"
→ "let S = \x y z." <term> "\n"

```

→ "let S = \x y z." <application> "\n"
 → "let S = \x y z." <operand> <application_opt> "\n"
 → "let S = \x y z." <variable> <application_opt> "\n"
 → "let S = \x y z." <variable> <whitespace> <operand> <application_opt>
 "\n"
 → "let S = \x y z.x " <operand> <application_opt> "\n"
 → "let S = \x y z.x " <variable> <application_opt> "\n"
 → "let S = \x y z.x " <variable> <whitespace> <operand> <applica-
 tion_opt> "\n"
 → "let S = \x y z.x " <variable> <whitespace> <operand> "\n"
 → "let S = \x y z.x z " <operand> "\n"
 → "let S = \x y z.x z " <term_par> "\n"
 → "let S = \x y z.x z (" <term> ") \n"
 → "let S = \x y z.x z (" <application> ") \n"
 → "let S = \x y z.x z (" <operand> <application_opt> ") \n"
 → "let S = \x y z.x z (" <operand> <whitespace> <operand> <applica-
 tion_opt> ") \n"
 → "let S = \x y z.x z (" <operand> <whitespace> <operand> ") \n"
 → "let S = \x y z.x z (" <variable> <whitespace> <variable> ") \n"
 → "let S = \x y z.x z (y z) \n"

<program>
 → <expression> <program>
 → <expression> <expression> <program>
 → <expression> <expression> <expression> <program>
 → <expression> <expression> <expression>
 → <expression_opt> <line_end> <expression> <expression>
 → <definition> <line_end> <expression> <expression>
 → <definition> <line_end> <expression_opt> <line_end> <expression>
 → <definition> <line_end> <definition> <line_end> <expression>
 → <definition> <line_end> <definition> <line_end> <expression_opt>
 <line_end>
 → <definition> <line_end> <definition> <line_end> <term> <line_end>
 →
 "let S = \x y z.x z (y z) \n
 let K = \x y.x \n
 S K K \0"